ABSTRACT

[0091]   The present invention is a channel estimator based on the values of received data and on a priori probabilities only of received symbols. The channel estimator includes a symbol probability generator, a noise variance estimator and a channel tap estimator. The symbol probability generator generates a priori probabilities only of transmitted symbols found in the received signal(s). The noise variance estimator estimates at least one noise variance corrupting the received signal(s). The channel tap estimator generates channel estimates from the received signal(s), the a priori probabilities and the noise variance(s).